

## Product datasheet for **SC201357**

### **ALAS1 (NM\_199166) Human 3' UTR Clone**

#### **Product data:**

<b>Product Type:</b>	3' UTR Clones
<b>Product Name:</b>	ALAS1 (NM_199166) Human 3' UTR Clone
<b>Vector:</b>	pMirTarget (PS100062)
<b>Symbol:</b>	ALAS1
<b>Synonyms:</b>	ALAS; ALAS-H; ALAS3; ALASH; MIG4
<b>ACCN:</b>	NM_199166
<b>Insert Size:</b>	183 bp
<b>Insert Sequence:</b>	>SC201357 3'UTR clone of NM_199166 The sequence shown below is from the reference sequence of NM_199166. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TTGAGCAAGTTGGTATCTGCTCAGGCC <b>TG</b> AGCATGACCTCAATTATTTCACTTAACCCAGGCCATTAT CATATCCAGATGGTCTTCAGAGTTGCTTTATATGTGAATTAAGTTATATTTAAATTTAATCTATAGTA AAAACATAGTCCCTGGAAATAAATTCTTGCTTAAATGGTGAAAAAA <b>ACGCGT</b> AAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
<b>Restriction Sites:</b>	Sgfl-MluI
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<u><a href="#">NM_199166.2</a></u>



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**Summary:** This gene encodes the mitochondrial enzyme which catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]

**Locus ID:** 211

**MW:** 7.1